SIEMENS

Data sheet 6XV1878-5SN10

product type designation

product description

IE TP Cord M12-90/RJ45-180

Flexible plug-in cable (8-wire), preferred length, pre-assembled with 1 x IE M12 plug 4X2, X-coded, 90 degrees cable outlet and 1x RJ45 connector; 4x2, 180 degrees cable outlet

IE TP Cord M12-90/RJ45-180, pre-assembled IE Flexible Cable, with 1x M12 plug (X-coded); 90-degree cable outlet; 1x RJ45 plug; 180-degree cable outlet; length 10.0 m.



suitability for use

For connecting Industrial Ethernet stations with an M12 interface (e.g. SCALANCE W and SCALANCE X)

wire length 10 r

wire length	10 m
electrical data	
number of electrical connections	2
attenuation factor per length	
at 10 MHz / maximum	0.086 dB/m
at 100 MHz / maximum	0.28 dB/m
at 300 MHz / maximum	0.402 dB/m
at 600 MHz / maximum	0.735 dB/m
impedance	
• at 1 MHz 100 MHz	100 Ω
near-end crosstalk per length	
● at 100 MHz	0.724 dB/m
● at 300 MHz	0.653 dB/m
● at 600 MHz	0.608 dB/m
loop resistance per length / maximum	290 mΩ/m
insulation resistance coefficient	5000 GΩ·m
operating voltage	
RMS value	80 V
NVP value in percent	68 %
mechanical data	
number of electrical cores	8

80 V
68 %
8
Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
No
0.48 mm
1 mm
5.4 mm
6.5 mm
0.3 mm
polyethylene (PE)

a of apple shooth	PUR
• of cable sheath	FUR
color ● of the insulation of data wires	white/blue white/orange white/groon white/brown
of cable sheath	white/blue, white/orange, white/green, white/brown
	green
bending radius	22 5 mm
with single bend / minimum permissible	32.5 mm
with multiple bends / minimum permissible tensile load / maximum	65 mm 100 N
weight per length	45 kg/km
ambient conditions	
ambient temperature	
 during operation 	-30 +80 °C
during storage	-40 +80 °C
 during transport 	-40 +80 °C
during installation	-40 +80 °C
fire behavior	flame resistant according to IEC 60332-1-2, smoke density according to IEC 61034
chemical resistance	
• to mineral oil	oil resistant according to DIN EN 60811-2-1
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP65/67 (M12), IP20 (RJ45)
product features, product functions, product components	s / general
product feature	
halogen-free	Yes
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; AWM Style 21815
UL/ETL style / 600 V Rating	No
certificate of suitability	NO
EAC approval	Yes
CE marking	Yes
RoHS conformity	Yes
standard for structured cabling	Cat6A
	CaluA
Marine classification association	Nie
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV) Pat Negative Vertice (BN)	No
Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
Polski Rejestr Statkow (PRS)	No
reference code	
 according to IEC 81346-2 	WG
• according to IEC 81346-2:2019	WGB
further information / internet-Links	
Internet-Link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to website: Industrial communication 	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
 to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
to website: Selection guide for cables and	https://sie.ag/2QdlxcP
connectors	
to website: Image database	http://automation.siemens.com/bilddb
 to website: Industry Online Support 	https://support.industry.siemens.com
last modified:	5/10/2022 🖸